



KPR Institute of Engineering
and Technology
(Autonomous)
Avinashi Road, Arasur, Coimbatore - 641 407



Department of Electronics and Communication Engineering
(Accredited by NBA)

NEWSLETTER- NOVEMBER 2020 ISSUE



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➤ **Vision**

To be a department of repute for learning and research with state-of-the-art facilities to enable the students to succeed in globally competitive environment

➤ **Mission**

- To impart knowledge and skill based education with competent faculty striving for academic excellence
- To instill research centres in the field that industry needs, by collaborating with organizations of repute
- To provide ethical and value based education by promoting activities addressing the societal needs and facilitates lifelong learning

➤ **Programme Educational Objectives**

- **PEO 1:** Graduates will possess an adequate knowledge and have successful technical career in Electronics and Communication Engineering or related fields
- **PEO 2:** Graduates will possess leadership qualities and demonstrate professional and ethical values
- **PEO 3:** Graduates will continue their life-long professional development through higher education or entrepreneurship

EVENT ORGANISED

- The department of ECE organised an AICTE-AQIS sponsored Short Term Training Program (STTP) on “Integrative Internet of Things and Deep Learning for Smart Healthcare (Series-II)” from 16th November 2020 to 21st November 2020. Session speakers are eminent experts from industry, R&D institutes, renowned universities and institutes. Total of 50 participants attended the STTP. The participants were given insights about IoT application development for healthcare with enhanced IoT security and developed knowledge to use deep learning efficiently to power the IoT-based applications for smart healthcare. The participants were faculty, research scholars, postgraduate students of engineering colleges recognized by AICTE, New Delhi and. The participants learned to train Convolutional Neural Networks(CNN) to develop deep learning architecture for medical data processing and treatment planning. The participants were given insights about LoRaWAN communication and implementation of IoT based devices in industries.






AICTE Sponsored Short Term Training Program (STTP)
 on
Integrative Internet of Things and Deep Learning for Smart Healthcare (Series-II)
 Organized by
Department of Electronics and Communication Engineering
 16th November to 21st November 2020

Session Time: 10:30 AM to 12:30 PM

Date	Topic	Speaker
16-17-2020	Deep Learning Based Products for Healthcare Applications	Dr. D. Kathirvelu, AsP/ECE, KPR Institute of Engineering and Technology, Coimbatore
16-17-2020	Application of Deep Learning Algorithms for Covid-19 Detection	Dr. A. C. Jayaraman, AsP/ECE, KPR Institute of Engineering and Technology, Coimbatore
18-19-2020	IoT Based Smart Healthcare Applications with LoRaWAN	Dr. J. Santhanakrishnan, Retd. General Manager (BSNL), Chief Technical Officer (Consultant), Tamilnadu Cable TV Corporation
18-19-2020	Big Data of IoT and Data Science in Healthcare	Dr. S. Madhuchandran, AsP/ECE, KPR Institute of Engineering and Technology, Coimbatore
20-21-2020	Deep Learning Based Disease Diagnosis: Transfer Learning Model	Dr. S. Madhuchandran, AsP/ECE, KPR Institute of Engineering and Technology, Coimbatore
20-21-2020	IoT in the Healthcare: Remote Patient Monitoring	Dr. S. Madhuchandran, AsP/ECE, KPR Institute of Engineering and Technology, Coimbatore

Chairperson: Dr. M. Kathirvelu, AsP/ECE
Co-Chairpersons: Dr. V. Senthilakshmi, AsP/ECE; Ms. R. Anantha, AsP/ECE

For Registration: info@kpr.edu.in
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- The Department of ECE in Association with IPC organized a webinar on “Cyber Security Implication on 5G Technology” on 09.11.2020. Dr.M.Kathirvelu, Professor and Head/ECE and Dr.N.Rajeshkumar, AsP/ECE welcomed Er.J.Santhanakrishnan, Retd. General Manager (BSNL), Chief Technical Officer (Consultant), Tamilnadu Cable TV Corporation for the webinar session. Er.J.Santhanakrishnan started with the basic telecommunication terminologies and went on to showcase the real-time telecommunication threats and challenges across generations (2G, 3G, 4G and 5G).

The session covered various sectors including GSM technology, broadband, SDN and LTE. The significance of encryption protocols and the roaming concepts were explained with real-time examples. The expert highlighted the vulnerability of the handsets in various Generations and the safety measure in each generation. He gave many real-time examples to make the audience understand the concepts better. He also addresses the open security challenges and the opportunities in network security and cyber securities for the years to come when billions of billions of devices are connected in a common network.



FACULTY PUBLICATIONS

- Ramesh Muthiya and Dinesh Elangovan, “Design and Implementation of Crypt Analysis of Cloud Data Intrusion Management System”, The International Arab Journal of Information Technology, Vol.17, no.6, pp.895- 905, November 2020. **(SCIE)**
- V.Seethalakshmi and J.Ramprasath, “Secure Access of Resources in Software-defined Networks using Dynamic Access Control List”, International Journal of Communication System, John Wiley & Sons Ltd, Vol.1, no.1, pp.1- 12, November 2020. **(Scopus/SCI/ESI)**
- M.Manikandan, G.Dhivyasri, D.Nirmal, J.Ajayan, L.Arivazhagan and P.Prajoon, “Numerical Investigation of Traps and Optical Response in III-V Nitride Quantum LED”, Optical and Quantum Electronics, Springer, November 2020. **(SCIE)**

FACULTY AS RESOURCE SPEAKER

- Mr.V.Chandra Prasad, Assistant Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a guestlecture on “Overview of Microwave Engineering”, conducted by SNS College of Engineering, Coimbatore on 12.11.2020.



- Dr.G.Dhivyasri, Assistant Professor, Department of ECE, KPR Institute of Engineering and Technology was designated as resource person for a guestlecture on “Microprocessors and Microcontrollers”, conducted by SNS College of Engineering, Coimbatore on 06.11.2020. Main objective was to enhance student’s knowledge of microcontroller and use of different microcontrollers in industrial automation. Another important objective was to inspire students in using recent technological devices to implement their project ideas.

FACULTY INTERNSHIP

Name of the Faculty	Name of the Industry/Organization	subject/area	Start Date	End Date
Mr.S.Satheesh kumar, AP/ECE	Xebia, Coimbatore	AI/ML	01-11-2020	31-12-2020
Mr.G.Pradeepkumar, AP(Sr.G)/ECE	Xebia, Coimbatore	AI/ML	01-11-2020	31-12-2020
Ms.S.Chandrababha, AP/ECE	Xebia, Coimbatore	AI/ML	01-11-2020	31-12-2020

FACULTY PARTICIPATION

Name of the Faculty	FDP/STTP/OFDP Title	Organization Name	Start Date	End Date
Ms.R.Aswatha	STTP on Integrative Internet of Things and Deep Learning for Smart Healthcare (Series-II)	KPR Institute of Engineering and Technology	16-11-2020	21-11-2020
Mr.M.Manikandan	ATAL FDP on Photonics for Green Energy Demands	Thakur College of Engineering and Technology Mumbai	23-11-2020	27-11-2020
Ms.M.Supriya	FDP on End to end encryption in data analytics	SSN College of Engineering	02-11-2020	06-11-2020
Dr. M. Kathirvelu	AICTE- STTP on Integration of Renewable Energy and Big Data Analytics of Smart Grid	PA college of Engg & Technology	16-11-2020	21-11-2020
Dr. M. Kathirvelu	ATAL FDP on Leadership & Excellence	National Institute of Technology	23-11-2020	27-11-2020
Mr. S. Balamurali	STTP on Integrative Internet of Things and Deep Learning for Smart Healthcare (Series-II)	KPR Institute of Engineering and Technology	16-11-2020	21-11-2020
Mr.T.Venkatesh	FDP on End to end process in data analutics	SSN College of Engineering	02-11-2020	06-11-2020
Mr.S.Satheesh kumar	Refresher Programme on Feature Analysis of AI/ML	Sri Krishna College of Engineering and Technology	16-11-2020	21-11-2020
Dr.G.Dhivyasri	STTP on Integrative Internet of Things and Deep Learning for Smart Healthcare (Series-II)	KPR Institute of Engineering and Technology	16-11-2020	21-11-2020
Mr.G.Pradeepkumar	STTP on Integrative Internet of Things and Deep Learning for Smart Healthcare (Series-II)	KPR Institute of Engineering and Technology	11/16/2020	11/21/2020
Mr.N.SathishKumar	ATAL FDP on Internet of Things	Army Institute of Technology,Pune	11/24/2020	11/28/2020

STUDENTS INTERNSHIP

Name of the Faculty	Name of the Industry/Organization	Subject/area	Start Date	End Date
Pradeep.R	Xebia, Coimbatore	AI/ML	01-11-2020	31-12-2020
Pavithran.R	Xebia, Coimbatore	AI/ML	01-11-2020	31-12-2020
Nishand.R.M	Xebia, Coimbatore	AI/ML	01-11-2020	31-12-2020
Dhanesh .R	Xebia, Coimbatore	AI/ML	01-11-2020	31-12-2020
Preethi.M	Xebia, Coimbatore	AI/ML	01-11-2020	31-12-2020
Tharani.K.S	Xebia, Coimbatore	AI/ML	01-11-2020	31-12-2020